

# BRUSHRESOURCES

A Brush Engineered Materials Inc. Company

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m/023/0003  
cc: Wayne

1005

## Memorandum

Date: October 6, 2009  
To: Wayne Western  
From: John Wagner  
CC: File  
Re: *Proposed Change to Reclamation Seed Mix*

Please review the attached bulletins for Gardner's Saltbush and Trident Saltbush. Replacing the Four Wing Saltbush in the prescribed and approved seed mix is proposed.

Please provide a recommendation on whether or not a change to one of these plant varieties is warranted. Please let me know if you have any questions or require additional information

Thank you

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Div. of Oil, Gas & Mining

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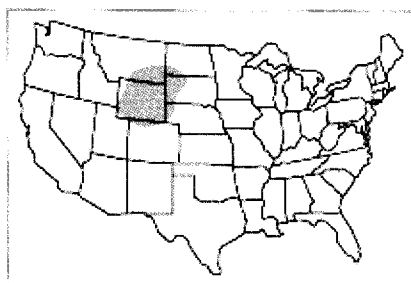
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## ***Atriplex gardneri***

### **Gardner saltbush**

**Previous scientific name(s):** *Atriplex buxifolia* : *Atriplex gordonii* : *Atriplex nuttallii ssp. buxifolia* : *Atriplex nuttallii ssp.*

Short, prostrate, evergreen shrub occurring on heavy to medium textured soils in valley bottoms, 3,500 to 7,000 feet. Often occurs in pure stands. Extremely salt and alkaline tolerant. Provides ex and wildlife.



<b>Group</b>	Dicot
<b>US Native</b>	Native
<b>Life Form</b>	Perennial
<b>Plant Type</b>	Shrub
<b>Active Growth Period</b>	Spring Summer
<b>Bloom Season</b>	Late Summer
<b>Mature Height (feet)</b>	4
<b>Flower Color</b>	Yellow
<b>Foliage Color</b>	Gray-Green
<b>Fertility Needs</b>	Low
<b>Toxicity</b>	None
<b>Fine Soil (adapted)</b>	Yes
<b>Medium Soil (adapted)</b>	Yes
<b>Coarse Soil (adapted)</b>	Yes
<b>Salinity Tolerance</b>	High
<b>Shade Tolerance</b>	Intolerant
<b>Moisture Requirements</b>	Low
<b>Fire Resistant</b>	No
<b>Fire Tolerance</b>	High
<b>Seed Period Start</b>	Fall
<b>Seed Period End</b>	Fall

<b>Seed / lb</b>	111450
<b>Seedling Vigor</b>	Medium
<b>Palatable (browser)</b>	High
<b>Palatable (grazer)</b>	Low



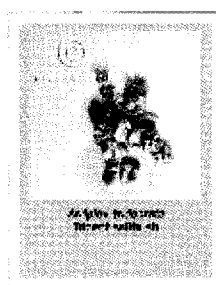
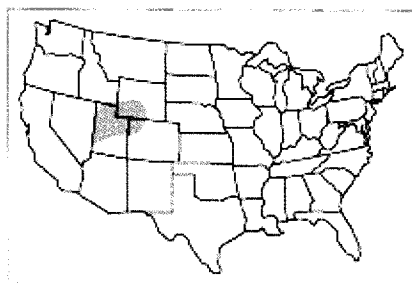
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## ***Atriplex tridentata***

**Trident saltbush, basin saltbush**

**Previous scientific name(s):** *Atriplex gardneri* var. *tridentata* : *Atriplex ga*  
*Atriplex nuttallii* : *Atriplex nuttallii* ssp. *trid*

Small prostrate to upright, evergreen to deciduous shrub adapted to heavy alkaline soils along fl to 7,500 ft. elevation. May occur with *A. gardneri* but on slightly wetter areas. Provides good fora



<b>Group</b>	Dicot
<b>US Native</b>	Native
<b>Life Form</b>	Perennial
<b>Plant Type</b>	Shrub
<b>Active Growth Period</b>	
<b>Bloom Season</b>	Year Round
<b>Mature Height (feet)</b>	0
<b>Flower Color</b>	Yellow
<b>Foliage Color</b>	
<b>Fertility Needs</b>	
<b>Toxicity</b>	
<b>Fine Soil (adapted)</b>	No
<b>Medium Soil (adapted)</b>	Yes
<b>Coarse Soil (adapted)</b>	No
<b>Salinity Tolerance</b>	High
<b>Shade Tolerance</b>	Intermediate
<b>Moisture Requirements</b>	Low
<b>Fire Resistant</b>	
<b>Fire Tolerance</b>	
<b>Seed Period Start</b>	
<b>Seed Period End</b>	
<b>Seed / lb</b>	5000000

<b>Seedling Vigor</b>	High
<b>Palatable (browser)</b>	Medium
<b>Palatable (grazer)</b>	Medium